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Manufacturers' Shipments, Inventories, and Orders

December 1973



SERIES: M3-1(73)-12

U. S. DEPARTMENT OF COMMERCE . Social and Economic Statistics Administration . BUREAU OF THE CENSUS

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to \$76.66 billion from \$79.44 billion in November after seasonal adjustment. Shipments decreased \$1.47 billion or 1.9 percent to \$75.55 billion from \$77.02 billion in November. Unfilled orders increased \$1.11 billion or 1.0 percent to \$115.44 billion at the end of December. Manufacturers' inventories increased \$2.16 billion or 1.8 percent to \$120.59 billion at the end of December. The inventories to shipments ratio increased from 1.54 to 1.60.

For the 3 months ending in December, the average month to month change in new orders increased 0.7 percent compared with a 0.1 percent decrease for the 3 months ending in September and a 1.2 percent increase for the 3 months ending in June.

NEW ORDERS

New orders for durable goods decreased \$2.95 billion or 6.6 percent in December primarily due to decreases in motor vehicles and parts (\$1.13 billion), aerospace industries (\$585 million) and shipbuilding and railroad equipment industries (\$680 million). Exclusive of the transportation industries, new orders in December for durable goods declined \$505 million or 1.5

SHIPMENTS

Shipments of durable goods decreased \$1.58 billion or 3.8 percent to \$40.32 billion in December. Virtually all of this decrease was attributable to the motor vehicles and parts industry (\$1.25

¹It should be noted that new orders for the motor vehicles industry are not reported as such but are estimated as equal to shipments. Hence a sizeable decrease in shipments is necessarily accompanied by a similar decrease in new orders.

Shipments of nondurable goods in-New orders for manufactured products in billion. Among the nondurable goods, increases December decreased \$2.78 billion or 3.5 percent to \$76.66 billion from \$79.44 billion in November by detreases in other sectors of nondurables.

UNFILLED ORDERS

Unfilled orders of durable goods increased \$1.05 billion or 1.0 percent to \$110.66 billion at the end of December. This increase was led by nonelectrical machinery (\$660 million) and fabricated metal products (\$295 million).

INVENTORIES

Inventories of durable goods increased \$1.46 billion and nondurable goods increased \$695 million between the end of December and November. At the all manufacturing level, materials and supplies increased \$915 million, work in process inventories increased \$720 million and finished goods increased \$520 million.

SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for January is scheduled for release on February 22, 1974 and the full report is scheduled for release on March 5, 1974.

For an explanation of terms used in this report see appendix following table 5.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Social and Economic Statistics Administration, Bureau of the Census, Industry Division, Washington, D.C. 20233.

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP
(Millions of dollars)

				(Million	s of doll	ars)							
			5hip	ments		Total inventorIes							
Industry group	Seasonally adjusted			hout seas djustment		5easc	nally ad	justed	Without seasonal adjustment ¹				
	Dec. 1973 ^p	Nov. 1973	Oct. 1973	Dec. 1973 ^p	Nov. 1973	Dec. 1972	Dec. 1973 ^p	Nov. 1973 ^r	Oct. 1973	Dec. 1973 ^p	Nov. 1973	Dec. 1972	
All manufacturing indus-													
tries: Total	75,546	77,019	75,269	71,739	76,387	63,675	120,591	118,435	117,224	120,037	117,842	107,415	
Total, excluding trans- portation	66,454	66,395	64,460	63,050	65,476	54,541	102,606	100,672	99,458	102,115	99,958	91,253	
Durable goods Industries, total.	40,321	41,896	41,567	38,163	41,356	34,636	79,104	77,645	76,951	78,511	77,154	69,803	
Stone, clay, and glass products.	2,183	2,162	2,178	1,927	2,136	1,736	2,791	2,737	2,720	2,730	2,626	2,410	
Primary metals, total 81ast furnaces, steel mills. Nonferrous metals All other primary metals	6,693 3,157 2,620 916	6,792 3,367 2,495 930	6,730 3,459 2,369 902	6,081 2,819 2,416 846	6,383 3,057 2,428 898	5,051 2,518 1,806 727	9,314 4,645 3,439 1,230	9,226 4,617 3,402 1,207	9,222 4,677 3,375 1,170	9,459 4,799 3,435 1,225	9,255 4,686 3,395 1,174	9,828 5,447 3,351 1,030	
Fabricated metal products		,											
total Metal cans, barrels, and	4,724	4,714	4,648	4,518	4,668	3,866	8,907	8,792	8,513	8,678	8,602	7,628	
drums	506	491	490	436	431	356	739	730	721	673	680	646	
Machinery, except electrical, total	6,647	6,614	6,353	6,411	6,174	5,326	16,736	16,365	16,164	16,740	16,322	14,389	
Engines and turbines Farm machinery and equipment. Construction, mining, and	541 605	521 654	573 500	630 485	495 495	524 441	1,418 1,469	1,395 1,335	1,378 1,342	1,442 1,469	1,429 1,298	1,251	
material handling equipment.	1,332	1,324	1,293	1,156	1,189	872	3,294	3,188	3,162	3,337	3,172	2,838	
Metalworking machinery General industrial machinery	356 626	381 573	353 575	369 622	356 542	309 481	1,423 1,421	1,426 1,397	1,385 1,375	1,410 1,406	1,429	1,143	
Electrical machinery, total Electrical transmission and distribution equipment and	5,436	5,382	5,372	5,490	5,571	4,959	12,495	12,302	12,102	12,266	12,170	10,178	
industrial apparatus Household appliances	1,037 746	1,022 680	998 687	1,029 690	1,028 655	923 593	2,772 1,164	2,716 1,177	2,651 1,172	2,760 1,149	2,681 1,154	2,253 1,023	
Radio and TV Communication equipment	513 1,185	575 1,125	524 1,139	565 1,258	654 1,150	543 1,173	1,057 3,530	1,048 3,492	1,050 3,430	980 3,488	1,028 3,471	891 2,856	
Transportation equipment, total Motor vehicles and parts Aircraft, missiles, and	9,094 5,423	10,624 6,668	10,809 6,932	8,689 4,808	10,911 6,928	9,134 5,520	17,985 5,412	17,763 5,391	17,766 5,391	17,922 5,429	17,884 5,461	16, 1 62 4,603	
parts	2,602	2,775	2,655	2,932	2,879	2,726	9,785	9,709	9,740	9,697	9,731	9,235	
Shipbuilding and railroad equipment	357	428	405	395	433	394	1,940	1,832	1,829	1,947	1,883	1,615	
Instruments and related products, total	1,216	1,232	1,245	1,209	1,258	1,175	3,281	3,170	3,083	3,178	3,110	2,637	
Scientific and engineering All other instruments and	613	608	603	589	593	568	1,814	1,744	1,708	1,783	1,723	1,582	
related products	603	624	642	620	665	607	1,467	1,426	1,375	1,395	1,387	1,055	
All other durable goods industries	4,328	4,376	4,232	3,838	4,255	3,389	7,595	7,290	7,381	7,538	7,185	6,571	
Nondurable goods industries, total	35,227	35,123	33,702	33,576	35,031	29,039	41,487	40,790	40,273	41,526	40,668	37,612	
Food and kindred products,	12,095	12,180	11,739	11,982	12,337	10,183	10,565	10,432	10,172	10,891	10,904	9,733	
Meat products	2,900 909		2,723 818		2,882 922		1,188 743				1,177	873 779	
Tobacco products Textile mill products	553 2,678	528 2,637	536 2,532	540 2,573	532 2,675	489 2,294	2,460 4,604	2,446 4,521	2,425 4,407	2,591 4,457	2,449 4,339	2,495 3,917	
Paper and allied products,	0.084		0.00#	2 000	0.050	0.000	0.040	0.450		0.040			
total Pulp, paper, etc	2,871 1,199	2,898 1,240	2,807 1,201	2,699 1,148	2,650 1,216	2,288 956	3,243 1,118	3,170 1,094	3,089 1,047	3,241 1,115	3,121 1,082	2,872 1,036	
Paperboard containers All other paper containers	772 900	777 881	749 857	711 840	766 868	608 724	932 1,193	931 1,145	914	918 1,208	927 1,112	827 1,009	
Chemicals and allied products,	6,205	5,895	5,687	5,521	5,610	4,740	7,226	7,208	7,185	7,243	7,092	7,064	
Industrial chemcials, except pigments Drugs, soap, and toiletries.	1,741 1,674	1,731 1,620	1,634 1,581	1,600 1,551	1,651 1,612	1,400 1,370	1,986 2,447	1,976 2,424	1,992 2,414	2,028 2,399	1,980 2,349	2,026 2,161	
Petroleum and coal products	3,577	3,456	3,170	3,605	3,425	2,685	2,653	2,548	2,474	2,699	2,617	2,340	
Rubber and plastics products,	1,809	1,794	1,748	1,636	1,729	1,490	2,613	2,574	2,578	2,627	2,559	2,394	
All other nondurable goods industries	5,439	5,735		5,020	5,873	4,870	8,123	7,891	7,943	7,777	7,607	6,797	
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Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, 8Y INDUSTRY GROUP--Continued (Millions of dollars)

			New o	rders	Unfilled orders							
Industry group	Seasonally adjusted			Without seasonal adjustment ¹			Seaso	onally adj	usted	With		
	Dec. 1973P	Nov. 1973 ^r	0ct. 1973	Dec. 1973 ^p	Nov. 1973 ^r	Dec. 1972	Оес. 1973 ^р	Nov. 1973 ^r	Oct. 1973	Оес. 1973 ^р	Nov. 1973	Dec. 1972
All manufacturing indus- tries;												
Total Total, excluding trans-	76,660	79,441	77,758	73,420	78,917	65,814	115,436	114,324	111,897	114,279	112,600	85,314
portation	67,526	67,868	66,390	64,763	67,037	56,064	84,012	82,939	81,460	82,976	81,266	59,300
Durable goods industries, total.	41,370	44,315	44,037	39,830	43,845	36,730	110,655	109,606	107,185	109,590	107,921	81,345
Primary metals, total	6,531	6,730	6,868	6,530	6,795	5,363	14,771	14,934	14,996	14,219	13,770	7,681
81ast furnaces, steel mills.	3,000	3,109	3,309	3,191	3,288	2,733	9,894	10,051	10,309	9,458	9,086	4,798
Nonferrous metals	2,511	2,582	2,516	2,392	2,488	1,872	2,707	2,816	2,730	2,623	2,647	1,805
Fabricated metal products	5,020	4,997	5,135	4,845	4,849	4,232	14,910	14,614	14,329	14,818	14,491	10,856
Machinery, except electrical,												
total	7,306	7,313	7,174	7,06R	6,889	5,894	21,981	21,321	20,621	21,850	21,191	14,822
Engines and turbines Construction, mining, and	739	710	711	822	676	801	5,782	5,583	5,393	5,765	5,572	4,519
material handling equipment.	1,491	1,558	1,505	1,278	1,397	954	4,444	4,285	4,050	4,364	4,242	2,722
Metalworking machinery General industrial machinery.	390 656	461 561	489 689	391 699	423 555	362 549	2,039 2,263	2,005	1,926 2,245	2,045 2,261	2,023	1,088 1,523
Electrical machinery, total	5,516	5,788	5,816	5,736	5,748	5,206	19,786	19,706	19,300	19,909	19,665	15,864
Electrical transmission and												
distribution equipment and	1 999	1 176	1.097	1 250	1 160	1,029	E C10	5 400	5 000	5 015	e 200	
industrial apparatus Household appliances	1,233 740	1,175 670	674	1,258	1,150	594	5,618	5,422	5,269	5,615	5,386	4,260
Radio and TV	381	653	530	468	629	564	629	761	683	601	698	671
Communication equipment	1,105	1,176	1,152	1,233	1,110	1,115	6,248	6,328	6,278	6,409	6,435	6,094
Transportation equipment,												
total	9,134	11,573	11,368	8,657	11,880	9,750	31,424	31,385	30,437	31,303	31,334	26,014
Aircraft, missiles, and parts	2,307	2,893	3,156	2,630	2,847	3,245	19,470	19,765	10 640	10 257	10.050	17 000
Shipbuilding and railroad	2,301	2,093	3,136	2,630	2,041	3,243	19,470	19,165	19,648	19,357	19,659	17,886
equipment	543	1,221	462	542	1,228	389	7,426	7,241	6,448	7,315	7,169	5,016
All other durable goods												
1ndustries	7,863	7,914	7,676	6,994	7,684	6,285	7,783	7,646	7,502	7,491	7,470	6,108
Nondurable goods industries, total	35,290	35,126	33,721	33,590	35,072	29,084	4,781	4,718	4,712	4,689	4,679	3,969
Industries with unfilled												
orders	8,564	8,687	8,465	8,224	8,840	7,454	4,781	4,718	4,712	4,689	4,679	3,969
orders	26,726	26,439	25,256	25,366	26,232	21,630	-	-	-	-	-	-

⁻ Represents zero. Preliminary. Revised.

Adjusted for trading-day and calendar-month variations.

Table 2.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES (Millions of dollars)

	Season	nally adj	justed		out seas		Seaso	na ll y ad	justed	Without seasonal adjustment			
Industry group	Dec. 1973 ^p	Nov. 1973	Oct. 1973	Dec. 1973 ^p	Nov, 1973	Dec. 1972	0ec. 1973 ^p	Nov. 1973	Oct. 1973	Dec. 1973 ^p	Nov. 1973	Dec. 1972	
			Shipm	ents				1	otal inv	entories			
All manufacturing industries, total	75,548	77,019	75,269	71,739	76,387	63 675	120,591	118 435	117,224	120,037	117,842	107,415	
									76,951	1	·		
Durable goods industries, total Nondurable goods industries, total	4D,321 35,227	41,896 35,123	41,567 33,702	38,163 33,576	41,356 35,031	34,636 29,039	79,104 41,487	77,645	40,273	78,511 41,526	77,154 40,688	69,803 37,612	
Industry groups arranged by market						,							
categories: Home goods and apparel	7,064	7,178	6,878	6,351	7,225	5,709	13,210	13,065	13,146	12,758	12,580	11,450	
Consumer staples	14,797	14,915	14,479	14,592	15,104	12,748	16,065	15,808	15,638	16,376	16,110	14,704	
Automotive equipment	10,560 6,648	10,690 7,980	10,222 8,306	10,690 5,811	10,392 8,120	9,318 6,458	31,122 7,074	30,582 7,038	3D,3D2 7,021	30,990 7,087	30,507 7,062	27,242 6,090	
Construction materials, supplies, and		6,301	6,112	5,778	6,194	5,029	10,239	10,019	9,764	10,083	9,828	8,795	
intermediate products Other materials and supplies and	6,358												
intermediate products	30,121	29,955	29,272	28,517	29,352	24,413	42,881	41,923	41,353	42,743	41,755	39,134	
Supplementary series: 2 Household durable goods industries	3,197	3,260	3,152	3,040	3,292	2,690	6,239	6,112	6,210	6,060	5,955	5,406	
Capital goods industries	12,240	12,320	12,096 10,386	12,523 10,776	12,255	10,965 9,251	35,059 29,452	34,541	34,200 28,669	34,878 29,302	34,502 28,962	30,619 25,604	
Nondefense Defense	10,646	10,713	1,710	1,747	1,652	1,714	5,607	5,508	5,531	5,576	5,540	5,015	
			New o	rders			Unfilled orders						
All manufacturing industries, total	76,660	79,441	77,758	73,420	78,917	65,814	115,436	114,324	111,897	114,279	112,600	85,314	
Durable goods industries, total	41,370	44,315	44,037	39,830	43,845		110,655			109,590		81,345	
Nondurable goods industries, total	35,290	35,126	33,721	33,590	35,072	29,084	4,781	4,718	4,712	4,689	4,679	3,969	
Industry groups arranged by market categories:													
Home goods and apparel	6,988 14,800	7,274 14,911	6,948 14,488	6,222 14,596	7,220 15,113	5,629 12,754	2,909	2,978	2,885	2,803	2,928	2,339	
Equipment and defense products, except	Í			•	1	1							
Automotive equipment	11,158 6,797	12,253 8,018	11,203 8,307	11,457 5,934	11,607 8,326	10,200 6,560	56,381	55,636	54,035	\$56,304	55,414	44,359	
Construction materials, supplies, and intermediate products	6,734	6,558	6,630	6,060	6,315	5,322	13,958	13,581	13,232	13,727	13,445	10,091	
Other materials and supplies and	·			,				42,129	41,654	41,445	40,813	28,525	
intermediate products	30,183	30,427	30,182	29,151	30,336	25,349	12,100	12,123	11,034	11,113	10,023	20,020	
Supplementary series: 2 Household durable goods industries	3,095	3,358	3,220	2,910	3,280	2,631	2,280	2,379	2,281	2,189	2,316	1,853	
Capital goods industries Nondefense	12,952 11,600	14,124 11,970	13,488 11,595	13,258 11,639	13,756 11,750	12,176 10,041	62,676 41,461	61,968 40,511	60,165 39,253	62,440 41,154	61,705 40,289	50,036 30,317	
Defense	1,352	2,154	1,893	1,619	2,006	2,135	21,215	21,457	20,912	21,286	21,416	19,719	

Ouring 1968 manufacturers in ordnance, communications, aircraft and aircraft parts, and shipbuilding industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in the defense series. PPreliminary. **Revised.** Shipments and new orders adjusted for trading-day and calendar-month variations; unfilled orders and inventories as of end of month. **The supplementary series are regroupings of the separate industry *Shipments and new orders adjusted to the separate industry

The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

appliances; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries - The cupital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance communications, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175,

Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

(Based on seasonally adjusted data)

	Mo	nth-to-mor	ith	Ave	erage month1	Average,	1967-72		
Item and industry group					3 months	12 months			
	Nov Dec. 1973	Oct Nov. 1973	Sept Oct. 1973	Sept Dec. 1973	June- Sept. 1973	Mar June 1973	Dec. 1972- Dec. 1973	Average rise	Average decline
Shipments:									
All manufacturing industries	-1.9	+2.3	+3.0	+1.1	+0.7	+0.9	+1.0	+1.3	-1.3
Ourable goods industries, total Nondurable goods industries, total	-3.8 +0.3	+0.8 +4.2	+3.5 +2.4	+0.2	+0.8 +0.5	+1.0 +0.7	+0,8 +1,2	+1.9 +0.9	-1.6 -0.7
Total inventories: All manufacturing industries	+1.8	+1.0	+1.0	+1.3	+0.9	+0.9	+1.0	+0,5	-0.1
New orders; All manufacturing industries	-3.5	+2.2	+3.5	+0.7	-0,1	+1.2	+0,9	+1.8	-1.5
Durable goods industries, total Nondurable goods industries, total	-6.6 +0.5	+0.6 +4.2	+4.2	-0.6 +2.4	-0.6 +0.5	+1.6 +0.6	+0.7 +1.2	+2,8 +1.0	-2.4 -0.6
Unfilled orders: Durable goods industries, total	+1,0	+2.3	+2.4	+1.9	+2.4	+3.5	+2.6	+1.0	-1.1

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES, BY STAGE OF FABRICATION, BY INDUSTRY GROUP (Millions of dollars)

Industry group		nally ad	justed	Without seasonal adjustment			Seaso	nally ad	justed	Without seasonal adjustment			
industry group	Dec. 1973 ^p	Nov. 1973 ^r	0ct. 1973	Dec. 19 73 ^p	Nov. 1973	Dec. 1972	Dec. 1973 ^p	Nov. 1973	Oct. 1973	Dec. 1973 ^p	Nov. 1973	Dec. 1972	
	Total						Materials and supplies						
All manufacturing industries, total	120,591	118,435	117,224	120,037	117,842	107,415	40,229	39,312	38,836	40,636	39,286	34,32	
burable goods industries, total	79,104	77,645	76,951	78,511	77,154	69,803	24,107	23,444	23,064	24,253	23,441	20,16	
Stone, clay, and glass products	2,791	2,737	2,720	2,730	2,626	2,410	997	968	936	1,001	962	80	
Primary metals	9,314	9,226	9,222	9,459	9,255	9,828	3,601	3,494	3,376	3,776	3,593	3,45	
Machinery (electrical and nonelectrical).	29,231	28,667	28,266	29,006	28,492	24,567	8,398	8,076	7,932	8,402	7,975	6,5	
Tansportation equipment	17,985	17,763	17,766	17,922	17,884	16,162	3,583	3,594	3,624	3,634	3,665	3,07	
	19,783	19,252	18,977	19,394	18,897	16,836	7,528	7,312	7,196	7,440	7,246	6,30	
ondurable goods industries, total	41,487	40,790	40,273	41,526	40,688	37,612	16,122	15,868	15,772	16,383	15,845	14,15	
Chemicals and allied products	7,226	7,208	7,185	7,243	7,092	7,064	2,771	2,706	2,681	2,788	2,682	2,43	
Petroleum and coal products	2,653	2,548	2,474	2,699	2,617	2,340	577	567	542	587	567	5:	
Ruhber and plastics products, n.e.c	2,613	2,574	2,578	2,627	2,559	2,394	974	939	919	976	956	7:	
All other nondurable goods industries	28,995	28,460	28,036	28,957	28,420	25,814	11,800	11,656	11,630	12,032	11,640	10,4	
			Work in	process			Finished goods						
All manufacturing andustries, total	42,655	41,935	41,405	42,121	41,897	37,655	37,707	37,188	36,983	37,280	36,659	35,44	
urable goods industries, total	36,039	35,519	35,082	35,659	35,529	31,812	18,958	18,682	18,805	18,599	18,184	17,8	
Stone, clay, and glass products	406	394	389	383	363	314	1,388	1,375	1,395	1,346	1,301	1,28	
Primary metals	3,413	3,405	3,455	3,402	3,395	3,491	2,300	2,327	2,391	2,281	2,267	2,88	
Machinery (electrical and nonelectrical).	13,276	13,203	12,983	13,157	13,245	11.146	7,557	7,388	7,351	7,447	7,272	6,90	
Transportation equipment	12,823	12,589	12,576	12,746	12,639	11,757	1,579	1,580	1,566	1,542	1,580	1,3	
All other durable goods industries	6,121	5,928	5,679	5,971	5,887	5,104	6,134	6,012	6,102	5,983	5,764	5,4	
ondurable goods industries, total	6,616	6,416	6,323	6,462	6,368	5,843	18,749	18,506	18,178	18,681	18,475	17,61	
		1 110	1,126	1,063	1,107	1,068	3,399	3,383	3,378	3,392	3,303	3,56	
Chemicals and allied products	1,056	1,119											
Chemicals and allied products Petroleum and coal products	1,056	591	536	640	593	471	1,427	1,390	1,396		1,457	1.39	
					593 415	471 405	1,427	1,390 1,219	1,396	1,472	1,457 1,188	1,35	

Ppreliminary.
*Revised.

Table 5.--RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP (8ased on seasonally adjusted data)

	Inven	tories - s	hipments r	atio	Unfilled orders - shipments ratio ¹ (months' backlog)				
lndustry group	0ec. 1973 ^p	Nov. 1973	0ct. 1973	Dec. 1972	Dec. 1973 ^p	Nov. 1973	0ct. 1973	0ec. 1972	
All manufacturing industries, total	1,60	1.54	1.56	1.61	2.67	2.53	2.52	2.18	
Ourable goods industries, total	1.96	1.85	1.85	1.92	3.19	3.00	2.97	2.59	
Stone, clay, and glass products	1.28	1.27	1.25	1.25	(NA)	(NA)	(NA)	(NA)	
Primary metals	1.39	1.36	1.37	1.73	2.21	2.20	2.23	1.43	
Fabricated metals	1.89	1.87	1.83	1.94	3.54	3.46	3.45	3.01	
Machinery, except electrical	2.52	2.47	2.54	2.60	3.31	3.22	3.25	2.70	
Electrical machinery	2.30	2.29	2.25	2.12	3.64	3.66	3.59	3.21	
Transportation equipment	1.98	1.67	1.64	1.68	5.81	5.28	5.09	4.95	
Instruments and related products	2.70	2.57	2.48	2.30	(NA)	(NA)	(NA)	(NA)	
Nondurable goods industries, total	1.18	1.16	1.19	1.23	0.56	0.54	0.56	0.52	
Food and kindred products	0.87	0.86	0.87	0.92	(X)	(x)	(X)	(X)	
Tobacco products	4.45	4,63	4.52	4.73	(X)	(X)	(X)	(X)	
Textile mill products	1.72	1.71	1.74	1.70	(NA)	(NA)	(NA)	(NA)	
Paper and allied products	1.13	1.09	1.10	1.18	(NA)	(NA)	(NA)	(NA)	
Chemicals and allied products	1,17	1.22	1.26	1.32	(x)	(x)	(X)	(x)	
Petroleum and coal products	0.74	0.74	0.78	0.86	(X)	(X)	(X)	(X)	
Rubber and plastics products, n.e.c	1.44	1.43	1.47	1.45	(X)	(X)	(X)	(x)	

NA) Not available. Preliminary. rRevised. (X) Not applicable.

*Excludes the following industries with no unfilled order: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

Appendix

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

DESCRIPTION OF THE SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the annual survey of manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 establishments. In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

EXPLANATION OF TERMS

Value of Shipments.-Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were not sales to outside customers. Although this

definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories.-End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (11FO, F1FO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders--

Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of paritial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.

